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What is Claimed is:

- 1. A microwave oven comprising:
- a body forming an outer appearance;

an inner case in the body having a cooking chamber formed therein;

an outfit room at one side of the inner case, having various electric parts, such as a magnetron, a high voltage transformer, mounted therein; and

a convection assembly mounted at a side of the inner case, for transmitting heat to the cooking chamber.

- 2. The microwave oven as claimed in claim 1, wherein the convection assembly is mounted in the outfit room.
- 3. The microwave oven as claimed in claim 2, further comprising a cooling fan on an upper surface of the outfit room for directing air downward for cooling the electric parts and the convection assembly.
- 4. The microwave oven as claimed in claim 2, further comprising a cooling fan at a rear upper corner of the outfit room for cooling the electric parts and the convection assembly.
- 5. The microwave oven as claimed in claim 4, wherein the cooling fan is mounted tilted to face a front lower side of the outfit room for directing air toward the electric parts and a side of the convection assembly.
- 6. The microwave oven as claimed in claim 2, wherein the body has an inlet in a front surface for introducing external air, and the outfit room has an opening for guiding the

external air introduced into the body through the inlet to the outfit room.

- 7. The microwave oven as claimed in claim 6, wherein the cooling fan is under the opening for cooling the electric parts and the convection assembly.
- 8. The microwave oven as claimed in claim 7, wherein the cooling fan is mounted tilted to face a front lower side of the outfit room for directing air toward the electric parts and a side of the convection assembly.
- 9. The microwave oven as claimed in claim 2, wherein the outfit room has an exhaust opening in an upper surface for discharging air from the outfit room.
- 10. The microwave oven as claimed in claim 9, further comprising a flow guide in the outfit room for guiding air from the outfit room to the exhaust opening.
- 11. The microwave oven as claimed in claim 10, wherein the flow guide includes one end surrounding the magnetron, and the other end connected to the exhaust opening.
- 12. The microwave oven as claimed in claim 2, further comprising an exhaust duct in an upper portion of the outfit room in communication with the outfit room for discharging external air introduced into the outfit room to an outside of the body.
- 13. The microwave oven as claimed in claim 12, wherein the exhaust duct is extended to a front of the body, to discharge air from the outfit room to front of the body.

- 14. The microwave oven as claimed in claim 12, wherein there is a flow guide in the outfit room for guiding air introduced into the outfit room to the exhaust duct.
- 15. The microwave oven as claimed in claim 10, wherein the flow guide includes one end surrounding the magnetron, and the other end connected to the exhaust opening.
 - 16. The microwave oven as claimed in claim 2, further comprising:

first, and second holes in a bottom of the body;

an exhaust fan on an upper surface of the inner case for introducing air into an inside of the body through the first, and second holes; and

an exhaust opening in an upper surface of the body for discharging air passed through the exhaust fan to an outside of the body.

- 17. The microwave oven as claimed in claim 16, wherein, between the body and the outfit room, there is a second exhaust flow passage for guiding air introduced through the second hole to the exhaust fan.
- 18. The microwave oven as claimed in claim 16, wherein there is an exhaust duct in an upper portion of the outfit room for discharging external air introduced into the outfit room to an outside of the body.
- 19. The microwave oven as claimed in claim 18, wherein the exhaust duct is in communication with the second exhaust flow passage.
 - 20. The microwave oven as claimed in claim 18, wherein there is a flow guide in the

outfit room in communication with the outfit room for guiding air introduced into the outfit room to the exhaust duct.